

M 5.8, 115 km SSE of Vilyuchinsk, Russia

Origin Time: 2023-12-23 17:48:03 UTC (Sun 04:48:03 local)
Location: 51.9509° N 158.9576° E Depth: 29.0 km

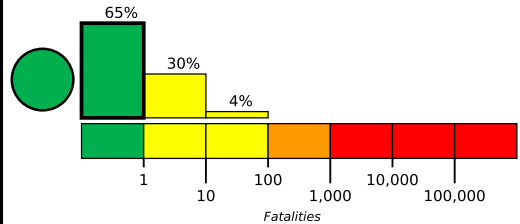
PAGER
Version 4

Created: 2 days, 21 hours after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

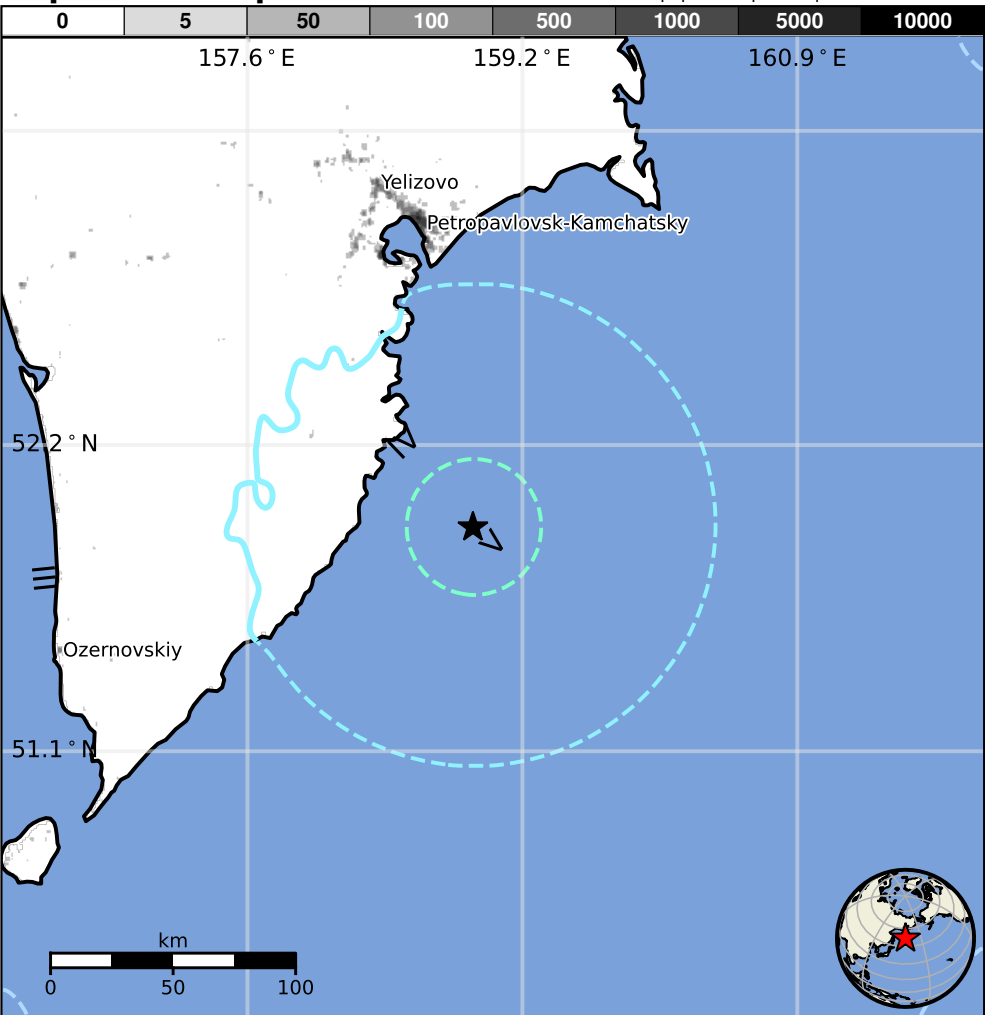


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	273k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are adobe block and unreinforced brick with mud construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1983-04-04	368	6.5	V(1k)	—
1992-03-02	121	6.8	VII(2k)	—
1993-06-08	118	7.5	VII(4k)	—

Selected City Exposure

from GeoNames.org

MMI	City	Population
III	Paratunka	2k
III	Ozernovskiy	3k
III	Vilyuchinsk	25k
III	Yelizovo	41k
III	Petropavlovsk-Kamchatsky	187k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
<https://earthquake.usgs.gov/earthquakes/eventpage/us7000ii46#pager>

bold cities appear on map.

(k = x1000)

Event ID: us7000ii46